

Application No. 09/747,515  
Amendment Dated June 1, 2004  
Reply to Office Action of April 1, 2004

**Amendments to the Claims:**

This listing of claims replaces all prior versions and listings of claims in the application:

**Listing of Claims:**

55. (Previously Presented) A method of accessing a subject multi-dimensional database stored on a data store connected to a computer, comprising:

receiving an indication of a number of features of said subject multi-dimensional database to be identified;

performing feature identification to identify the indicated number of features; and

creating an index for the subject multi-dimensional database using the identified number of features.

56. (Previously Presented) The method of claim 55, wherein creating the index comprises creating a multi-dimensional database that is derived from the subject multi-dimensional database.

57. (Previously Presented) The method of claim 55, wherein receiving the number of features to be identified comprises receiving a parameter value.

58. (Previously Presented) The method of claim 55, wherein performing feature identification comprises generating an ordered list of multi-dimensional points.

59. (Previously Presented) The method of claim 58,

Application No. 09/747,515  
Amendment Dated June 1, 2004  
Reply to Office Action of April 1, 2004

further comprising creating the index using the list of multi-dimensional points.

60. (Previously Presented) The method of claim 55, wherein creating the index comprises storing deviation values for each of the identified number of features.

61. (Previously Presented) An apparatus for accessing a subject multi-dimensional database, comprising:  
a computer having a data store coupled thereto, wherein the data store stores a subject multi-dimensional database; and,

one or more computer programs, performed by the computer, for receiving an indication of a number of features to be identified, performing feature identification on the multi-dimensional database to identify the indicated number of features, and creating an index for the subject multi-dimensional database using the identified number of features.

62. (Original) The apparatus of claim 61, wherein the index comprises a multi-dimensional database that is derived from the subject multi-dimensional database.

63. (Original) The apparatus of claim 61, wherein the number of features to be identified is received as a parameter value.

64. (Original) The apparatus of claim 61, wherein feature identification comprises generating an ordered list

Application No. 09/747,515  
Amendment Dated June 1, 2004  
Reply to Office Action of April 1, 2004

of multi-dimensional points.

65. (Previously Presented) The apparatus of claim 64, further comprising creating the index using the list of multi-dimensional points.

66. (Original) The apparatus of claim 61, wherein the index stores deviation values for each of the identified number of features.

67. (Previously Presented) An article of manufacture comprising a program storage medium readable by a computer and embodying one or more instructions executable by the computer to access a subject multi-dimensional database stored on a data store connected to the computer, comprising:

receiving an indication of a number of features to be identified in said multi-dimensional database;

performing feature identification to identify the indicated number of features; and

creating an index for the subject multi-dimensional database using the identified number of features.

68. (Original) The article of manufacture of claim 67, wherein the index comprises a multi-dimensional database that is derived from the subject multi-dimensional database.

69. (Original) The article of manufacture of claim 67, wherein the number of features to be identified

Application No. 09/747,515  
Amendment Dated June 1, 2004  
Reply to Office Action of April 1, 2004

is received as a parameter value.

70. (Original) The article of manufacture of claim 67, wherein feature identification comprises generating an ordered list of multi-dimensional points.

71. (Previously Presented) The article of manufacture of claim 70, further comprising creating the index using the list of multi-dimensional points.

72. (Original) The article of manufacture of claim 67, wherein the index stores deviation values for each of the identified number of features.

73. (Previously Presented) A method of accessing a subject multi-dimensional database stored on a data store connected to a computer, comprising:

receiving an indication of a number of features of said subject multi-dimensional database to be identified;

performing feature identification to identify the indicated number of features; and

creating an index for the subject multi-dimensional database using the identified number of features, wherein the index comprises a second multi-dimensional database that is derived from the subject multi-dimensional database.

74. (Previously Presented) The method of claim 73, wherein receiving the number of features to be identified comprises receiving a parameter value.

Application No. 09/747,515  
Amendment Dated June 1, 2004  
Reply to Office Action of April 1, 2004

75. (Previously Presented) The method of claim 73, wherein performing feature identification comprises generating an ordered list of multi-dimensional points.

76. (Previously Presented) The method of claim 75, further comprising creating the index using the list of multi-dimensional points.

77. (Previously Presented) The method of claim 73, wherein creating the index comprises storing deviation values for each of the identified number of features.

78. (Previously Presented) An apparatus for accessing a subject multi-dimensional database, comprising:  
a computer having a data store coupled thereto, wherein the data store stores a subject multi-dimensional database; and,

one or more computer programs, performed by the computer, for receiving an indication of a number of features to be identified, performing feature identification on the multi-dimensional database to identify the indicated number of features, and creating an index for the subject multi-dimensional database using the identified number of features, wherein the index comprises a second multi-dimensional database that is derived from the subject multi-dimensional database.

79. (Previously Presented) The apparatus of claim 78, wherein the number of features to be identified is

Application No. 09/747,515  
Amendment Dated June 1, 2004  
Reply to Office Action of April 1, 2004

received as a parameter value.

80. (Previously Presented) The apparatus of claim 78, wherein feature identification comprises generating an ordered list of multi-dimensional points.

81. (Previously Presented) The apparatus of claim 80, further comprising creating the index using the list of multi-dimensional points.

82. (Previously Presented) The apparatus of claim 78, wherein the index stores deviation values for each of the identified number of features.

83. (Previously Presented) An article of manufacture comprising a program storage medium readable by a computer and embodying one or more instructions executable by the computer to access a subject multi-dimensional database stored on a data store connected to the computer, comprising:

receiving an indication of a number of features to be identified in said multi-dimensional database;

performing feature identification to identify the indicated number of features; and

creating an index for the subject multi-dimensional database using the identified number of features, wherein the index comprises a second multi-dimensional database that is derived from the subject multi-dimensional database.

Application No. 09/747,515  
Amendment Dated June 1, 2004  
Reply to Office Action of April 1, 2004

84. (Previously Presented) The article of manufacture of claim 83, wherein the number of features to be identified is received as a parameter value.

85. (Previously Presented) The article of manufacture of claim 83, wherein feature identification comprises generating an ordered list of multi-dimensional points.

86. (Previously Presented) The article of manufacture of claim 85, further comprising creating the index using the list of multi-dimensional points.

87. (Previously Presented) The article of manufacture of claim 83, wherein the index stores deviation values for each of the identified number of features.